

Recovery Plan Action Status

Plan Name: Cochise Pincushion Cactus

Plan Status: Final

Plan Date: 27-Sep-93

Lead Agency: USFWS

Lead Office: Arizona Ecological Services Field Office

(602)
242-0210)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Cochise pincushion cactus (Coryphantha robbinsorum)	1	1	Develop HMP	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, State of Arizona, Private landowners, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 4K/year. AZ costs = 1K/year.
Cochise pincushion cactus (Coryphantha robbinsorum)	1	2	Study population biology	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2, Volunteers	Research: Demographic Studies	Species Expert, Volunteer	ES has all costs.
Cochise pincushion cactus (Coryphantha robbinsorum)	1	3.a.1	Law enforcement education	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, State of Arizona, U.S. Fish and Wildlife Service, Law Enforcement Division, USFWS Regional Office 2, Border Inspection Agents	Other: Law Enforcement	Internal Administrative	ES costs = 1K/year. LE costs = 1K/year. AZ costs = 2K/year. USDA costs = 2K/year.
Cochise pincushion cactus (Coryphantha robbinsorum)	1	3.a.2	Landowners reporting trespass	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, State of Arizona, U.S. Fish and Wildlife Service, Law Enforcement Division, Private landowners, USFWS Regional Office 2	Management: Other	Volunteer	All costs are LE.
Cochise pincushion cactus (Coryphantha robbinsorum)	1	3.b	Section 7 consultation	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Federal Agencies, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 1K/year. FED costs = 1K/year.

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Cochise pincushion cactus (Coryphantha robbinsorum)	1	3.c	Protect against surface disturbance	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service, Ecological Services Division, State of Arizona, Private landowners, Bureau Land Management , USFWS Regional Office 2	Management: General	Internal Administrative	2007 first year we have seen surface disturbance in area where plants are from border traffic; smugglers and other border crossers. LE staff from SBNWR redirected activity away from the population.
Cochise pincushion cactus (Coryphantha robbinsorum)	2	3.d	Acquire habitat	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Division of Realty, Bureau Land Management , USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	RE costs = 2K/year. BLM costs = 2K/year.
Cochise pincushion cactus (Coryphantha robbinsorum)	2	3.e	Protect against detrimental insect pest control	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	3	4.a	Reintroductions	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Private Conservation Organizations, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	3	4.b	Seed banking and ex situ research	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Private Conservation Organizations, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	ES costs = 1K/year. PCO costs = 1K/year.
Cochise pincushion cactus (Coryphantha robbinsorum)	2	5.a	Map species distribution	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	2	5.b	Search for new populations	Complete	FY 2007	FY 2007	U.S. Fish and Wildlife Service, Ecological Services Division, Forest Service , USFWS Regional Office 2	Research: Population Surveys	Contract	Section 6 grant to staff at Sonora Desert Museum to search for populations in Mexico. Approx. cost \$35,000.

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Cochise pincushion cactus (Coryphantha robbinsorum)	2	6.a.1	Study substrate	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	2	6.a.2	Study general climate	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Private landowners, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	All costs are ES.
Cochise pincushion cactus (Coryphantha robbinsorum)	2	6.a.3	Study microclimate	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	2	6.a.4	Determine community structure	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Research: Demographic Studies	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	1	6.b.1	Study reproductive biology	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Research: Demographic Studies	Species Expert, Volunteer	rare bee (Macrotera) described as pollinators for the cactus (email sent to FWS from Bill Radke, Refuge manager at San bernardino NWR) 2010
Cochise pincushion cactus (Coryphantha robbinsorum)	3	6.b.2	Study mammal predators	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	1	6.b.3	Study insect predators	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	1	6.b.4	Study grazing effects	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	2	6.b.5	Compile grazing history	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	

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Cochise pincushion cactus (Coryphantha robbinsorum)	2	6.b.6	Study plant interactions	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Cochise pincushion cactus (Coryphantha robbinsorum)	3	7	Information and education	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	